@ EPODOC / EPO

- KR2001025628 A 20010406

- METHOD FOR MANUFACTURING TITANIUM OXIDE BY LOW TEMPERATURE TREATMENT

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- 2001-528094 [58] AN

- Method for manufacturing titanium oxide by low temperature treatment

- KR2001025628 NOVELTY - Provided is a method for producing titanium oxide powder by conducting low heat treatment such as treating with boiling water or acid excluding heat treatment at high temperature. The titanium oxide powder has excellent crystallinity at relatively low temperature and high specific surface area. Therefore, it is possible to reduce the re-bonding rate of electron-positive hole which decrease the photo-catalyst activity, and to stimulate the photo-catalyst activity due to its broadened reaction area.

DETAILED DESCRIPTION - A method for producing TiO2 powder having nano-size particle is characteristically including the steps of: reacting amorphous titanium hydroxide precipitate obtained from a reaction between 0.5M of TiOCI2 solution and 0.5M of ammonia solution with 5M of NaOH aqueous SOLUTION; and performing a boiling water treatment or acid treatment to mixture of gamma-Na2TiO3 and anatase phase, using HCl at 60 deg.C, to elute all of the Na elements that are contained in the gamma-Na2TiO3 and to form TiO2 nano-size particles having excellent crystallinity and high specific surface area.

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- METHOD MANUFACTURE TITANIUM OXIDE LOW TEMPERATURE TREAT

- KR2001025628 A 20010406 DW200158 C01G23/04 001pp PN

- C01G23/04 IC

MC - E35-K01 J04-E04

- E32 J04 OC.

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